

CLAIMS

1. Method of negotiating parameters of an optimization algorithm during connection handover of a mobile station between radio network subsystems, comprising the steps of:

signaling from a source radio network subsystem to a core network or to a target radio network subsystem that said handover is required;

signaling from the core network or from the target radio network subsystem to the source radio network subsystem that said handover is to proceed; and

transmitting said parameters from said source radio network subsystem to said target radio network subsystem directly or via the core network without any need for renegotiating said parameters over an air interface between said mobile station and said target radio network subsystem.

2. The method of claim 1, wherein during initial establishment of said connection between the mobile station and the source radio network subsystem, the parameters may include various optional sets of parameters, only one of which is accepted by the source radio network subsystem, said method further comprising the step of storing all of said optional sets of parameters wherein said step of transmitting said parameter includes transmitting all of said optional sets of parameters.

3. Mobile telecommunications system including a core network (14) connected (Iu) to plural interconnected (Iur) radio network subsystems (11, 12) for communicating with a mobile station (10) over an air interface (Uu),
5 wherein a first one of said radio network subsystems (11) includes a source radio network controller (16) for signaling to said core network or to a target radio network controller (20) in a second one of said radio network subsystems (12) that a handover is required
10 wherein in response thereto said core network or said target radio network subsystem signals the source radio network controller that said handover is to proceed, and wherein parameters are then transmitted from said source radio network controller to said target radio network
15 controller directly or via the core network without any need for renegotiating said parameters over said air interface between said mobile station and said target radio network controller.

20 4. The system of claim 3, wherein during an initial negotiation of said parameters between the mobile station and the source radio network controller, said parameters include various optional sets of parameters, only one of which is accepted by the source radio network
25 controller, wherein said various optional sets of parameters are stored by said source radio network controller for transmittal to said target radio network controller after said source radio network controller signals said target radio network controller that said
30 handover is to proceed.